

ABSTRACT OF THE DISCLOSURE

[47] An automatic diagnostic medical test kit assembly system includes an assembly line having a conveyor; a return line parallel to the assembly line and having a conveyor running in a direction opposite of that of the conveyor of the assembly line; a plurality of pallets carrying components of the medical test kit during assembly; a plurality of work stations disposed along the assembly line to perform assembly steps on the components of the medical test kit; a start end pallet transfer mechanism disposed at the start end of the assembly line and the return line to transfer the pallets from the return line to the assembly line; and a finish end pallet transfer mechanism disposed at the finish end of the assembly line and the return line to transfer the pallets from the assembly line to the return line.